Event

MPTS
INTERMEDIATE E-2/C-2 AND AJET CQL 4490
T-45

Mission

CARRIER QUALIFICATION LANDING
SOLO CHECK FLIGHT (SHIP)

4.2 TOTAL HOURS

ORM

CQL 4490

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

CQL 4490

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

CQL 4490

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **CQL 4390**
  - **CQL 1104 (SHIP'S BRIEF EXAM)**

- **DISCUSS ITEMS:**

  CQL 4490
  - **NATOPS/SOP/EP QOD**
  - **CARRIER QUALIFICATION LANDING PROCEDURES**

SYLLABUS NOTES

CQL 4490

A. CQL 4490 SHALL NOT BE SHOTGUNNED FOR ANY REASON.

B. FOUR CARRIER TOUCH-AND-GO LANDINGS AND TEN CARRIER-ARRESTED LANDINGS REQUIRED FOR COMPLETION.

C. A STUDENT SHALL HAVE A WARMUP CQL 4386 IF MORE THAN TWO DAYS HAVE ELAPSED SINCE CQL 4390 OR DAY TOUCH-AND-GO/ARRESTMENT AT THE SHIP.

SYLLABUS NOTES CONT'D

CQL 4490

D. A MAXIMUM OF SIX CARRIER ARRESTMENTS ARE PERMITTED FOR CNATRA STUDENTS PER DAY. THIS IS WAIVERABLE BY THE CNATRA LSO.

E. STUDENTS ARE LIMITED TO TWO CQL FLIGHTS WITH A MAXIMUM OF THREE MANUPS PER DAY.

F. A MAXIMUM OF 3.5 FLIGHT HOURS IS PERMITTED PER ONE CARRIER QUALIFICATION LANDING FLIGHT FOR STUDENTS, TO COMMENCE AT TAKEOFF AND TERMINATE WITH ENGINE SHUTDOWN.

SYLLABUS NOTES CONT'D

CQL 4490

G. A MAXIMUM OF FIVE TOTAL FLIGHT HOURS PER DAY IS PERMITTED FOR STUDENTS.

H. STUDENTS SHALL BE DESIGNATED AS QUALIFIED WITH A GPA OF 2.50 OR BETTER AND A 60 PERCENT BOARDING RATE OR BETTER PROVIDED MIF FOR THE BLOCK HAS BEEN MET. ADDITIONALLY, THE TRAWING LSO, WITH CNATRA LSO APPROVAL, MAY QUALIFY STUDENTS WITH LESS THAN A 2.50 GPA BASED ON IMPROVING TRENDS. GRADING CRITERIA IS PROVIDED IN LSO NATOPS MANUAL (NAVAIR 00-80T-104) AND CARRIER QUALIFICATION FLIGHT TRAINING INSTRUCTION (CNATRA P-1211 (7-01)).

SYLLABUS NOTES CONT'D

CQL 4490

I. REQUALIFYING STUDENTS SHALL ATTAIN A 2.50 GPA OR BETTER. THE REST OF NOTE (H) APPLIES.

ADMIN (CARD)

CQL 4490

- **A/C - ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**

ADMIN

CQL 4490

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ITO**
  - **SWAPPING OF CONTROLS**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

CQL 4490

- **TIMS RESUME REVIEW**

- **PRACTICE:**
  - **CHECKLISTS/COMM/GROUND OPS**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **TAKEOFF**
  - **DEPARTURE**
  - **DESCENT/FIELD ENTRY**
  - **CV ARRIVAL (CASE I/II)**
  - **CV PATTERN**

CONDUCT

CQL 4490

- **PRACTICE CONTINUED:**
  - **START POSITION**
  - **AOA CONTROL**
  - **GLIDESLOPE CONTROL**
  - **POWER CONTROL**
  - **LINEUP CONTROL**
  - **ERROR DETECTION/CORRECTION**
  - **RESPONSE TO LSO CALLS**
  - **BOLTER/TOUCH-AND-GO TECHNIQUE**
  - **WAVEOFF TECHNIQUE**
  - **CVN FLIGHT DECK PROCEDURES**

CONDUCT

CQL 4490

- **PRACTICE CONTINUED:**
  - **CATAPULT LAUNCH PROCEDURES**
  - **CVN ARRESTMENT PROCEDURES**
  - **FULL-STOP LANDING**

BLOCK MIF

CQL 4490

CTS REF	MANEUVER	CQL4490
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4
3	Headwork/Situational Awareness	4+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
30 10	Takeoff	4+
11	Departure	4+
13	Descent/Field Entry	4+
51	CV Arrival (Case I/II)	4+
52	CV Pattern	4+
52	Start Position	4+
52	AOA Control	4+
52	Glideslope Control	4+
52	Power Control	4+
52	Lineup Control	4+
52	Error Detection/Correction	4+
52	Response to LSO Calls	4+
52	Bolter/Touch-and-Go Technique	4+
52	Waveoff Technique	4
51	CVN Flight Deck Procedures	4+

CTS REF	MANEUVER	CQL4490
51	Catapult Launch Procedures	4+
51	CVN Arrestment Procedures	4+
23	Full-Stop Landing	1+

Emergencies

CQL 4490

- **GROUND EMERGENCIES**
- **CLEAR ENGINE PROCEDURE**
- **ABORT**
- **RWY DEP / GND EJECTION**
- **RADIO/ICS FAILURE**
- **LOSS OF NAVAIDS**
- **LOST PLANE**
- **SYSTEM FAILURES**
- **DISORIENTATION**
- **BIRD STRIKE/ MIDAIR**
- **SAR PROCEDURES**
- **EJECTION**
- **AIRCREW COORDINATION**

STANDARD DEBRIEFING FORMAT

CQL 4490

- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOUROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE "S-P-B-E-MS-LL" FORMAT OUTLINED BELOW.

I. SAFETY
II. PLANNING
III. BRIEF
IV. EXECUTION
V. MISSION SUCCESS
VI. LESSONS LEARNED